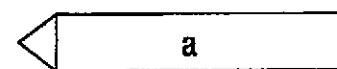
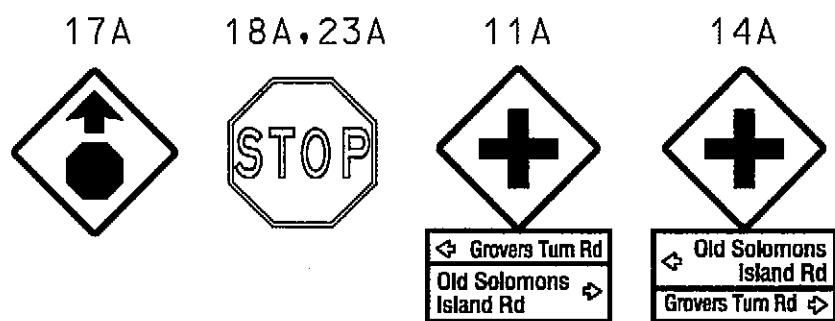


MD 2 IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION

VIDEO ZONE DETECTION



EXISTING SIGNS TO BE REMOVED

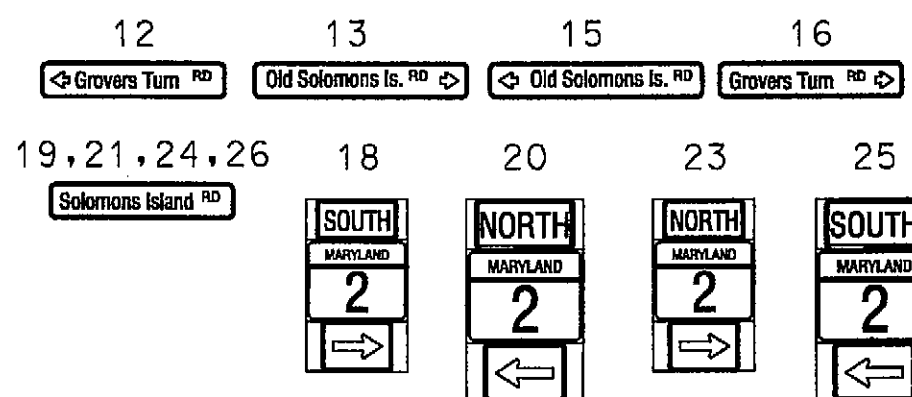


GENERAL NOTES:

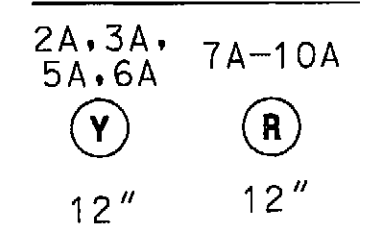
1. THE CONTRACTOR SHALL VERIFY ALL UNDERGROUND UTILITIES PRIOR TO INSTALLING PROPOSED SIGNAL EQUIPMENT. IF ANY UTILITY CONFLICTS SHOULD ARISE THE CONTRACTOR SHALL CONTACT THE PROJECT ENGINEER.
2. VIDEO CAMERA LOCATION / ALIGNING SHALL BE COORDINATED WITH THE SHA ENGINEER.
3. ALL EXISTING TRAFFIC SIGNAL EQUIPMENT REMOVED SHALL BECOME THE PROPERTY OF THE SIGNAL CONTRACTOR UPON COMPLETION OF THE NEW SIGNAL.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TERMINATING ALL SIGNAL CABLES TO THE APPROPRIATE TERMINALS AND PROPERLY LABEL EACH CABLE.
5. REMOVE AND DISPOSE OF ALL UNUSED SIGNAL CABLE.
6. REFER TO SHEET TSP-2 FOR DIMENSIONS OF SIGNAL EQUIPMENT AND PAVEMENT MARKINGS WITHIN INTERSECTION.

GUY 20'-2"
GUY 20'-7"
SECONDARY 22'-8"
CABLE 22'-10.5"
PRIMARY 27'-1.5"

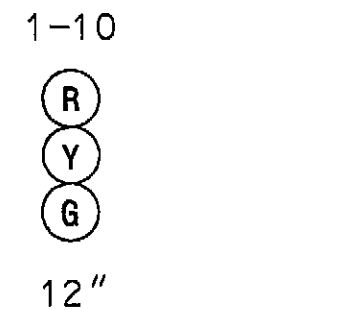
EXISTING SIGNS TO REMAIN



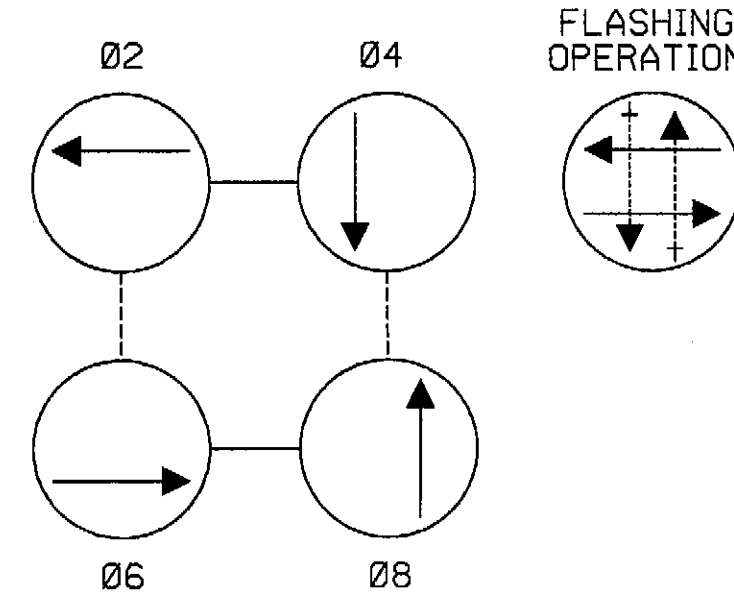
EXISTING SIGNALS TO BE REMOVED



PROPOSED SIGNALS



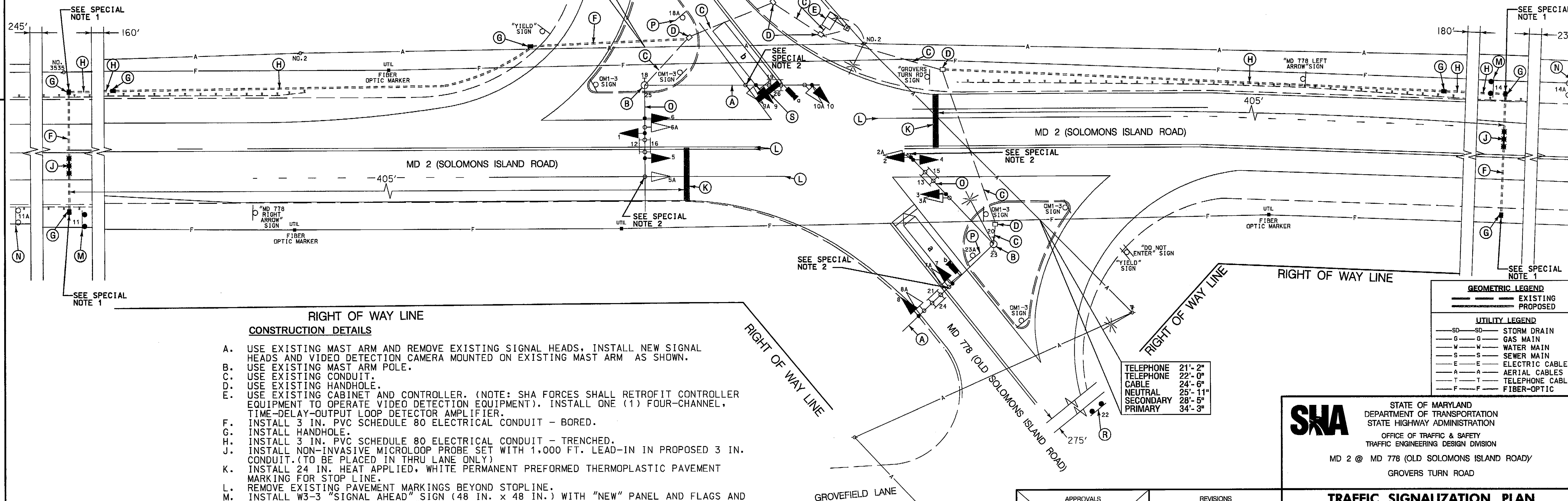
NEMA PHASING



NOTE: PHASES ASSOCIATED BY A DASHED LINE WILL OPERATE CONCURRENTLY. PHASES ASSOCIATED BY A SOLID LINE WILL NOT OPERATE CONCURRENTLY.

SPECIAL NOTES:

1. INSTALL HANDHOLE WITH LONG DIMENSION PERPENDICULAR TO TRAVEL WAY FOR INSTALLATION OF NON-INVASIVE PROBES. EXTEND CONDUIT A MINIMUM OF 2 IN. AND MAXIMUM OF 3 IN. INTO HANDHOLE.
2. DISCONNECT EXISTING ELECTRICAL CABLE FROM EXISTING SIGNAL HEADS TO BE REMOVED AND RE-CONNECT TO PROPOSED SIGNAL HEADS. ANY SIGNAL OUTAGE SHALL BE SCHEDULED DURING NON-PEAK HOURS AS DIRECTED BY THE ENGINEER.



RIGHT OF WAY LINE
CONSTRUCTION DETAILS

- A. USE EXISTING MAST ARM AND REMOVE EXISTING SIGNAL HEADS. INSTALL NEW SIGNAL HEADS AND VIDEO DETECTION CAMERA MOUNTED ON EXISTING MAST ARM AS SHOWN.
- B. USE EXISTING MAST ARM POLE.
- C. USE EXISTING CONDUIT.
- D. USE EXISTING HANDHOLE.
- E. USE EXISTING CABINET AND CONTROLLER. (NOTE: SHA FORCES SHALL RETROFIT CONTROLLER EQUIPMENT TO OPERATE VIDEO DETECTION EQUIPMENT). INSTALL ONE (1) FOUR-CHANNEL, TIME-DELAY-OUTPUT LOOP DETECTOR AMPLIFIER.
- F. INSTALL 3 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT - BORED.
- G. INSTALL HANDHOLE.
- H. INSTALL 3 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT - TRENCHED.
- J. INSTALL NON-INVASIVE MICROLOOP PROBE SET WITH 1,000 FT. LEAD-IN IN PROPOSED 3 IN. CONDUIT. (TO BE PLACED IN THRU LANE ONLY)
- K. INSTALL 24 IN. HEAT APPLIED, WHITE PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING FOR STOP LINE.
- L. REMOVE EXISTING PAVEMENT MARKINGS BEYOND STOP LINE.
- M. INSTALL W3-3 "SIGNAL AHEAD" SIGN (48 IN. x 48 IN.) WITH "NEW" PANEL AND FLAGS AND D-3(2) SIGNS (VARIABLE x 32") ON TWO 4 IN. x 6 IN. TREATED WOOD POSTS (L=23 FT) APPROXIMATELY 400 FT. IN ADVANCE OF THE INTERSECTION ON NORTHBOUND AND SOUTHBOUND MD 2.
- N. REMOVE EXISTING W2-1 AND D-3(2) SIGNS AND SUPPORT.
- O. USE EXISTING MAST ARM AND REMOVE EXISTING SIGNAL HEADS AND INSTALL NEW SIGNAL HEADS AS SHOWN.
- P. REMOVE EXISTING R1-1 SIGN AND SUPPORT. REPLACE CONCRETE DAMAGED DURING REMOVAL OF SUPPORT.
- R. INSTALL W3-3 "SIGNAL AHEAD" SIGN (36"x36") WITH "NEW" PANEL AND FLAGS ON ONE 4 IN. x 6 IN. TREATED WOOD POST (L=17 FT) APPROXIMATELY 380 FT. IN ADVANCE OF THE INTERSECTION.
- S. REMOVE EXISTING STOP LINE AND INSTALL 24 IN. HEAT APPLIED, WHITE PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING FOR STOP LINE.

TELEPHONE 21'-2"
TELEPHONE 22'-0"
CABLE 24'-6"
NEUTRAL 25'-11"
SECONDARY 28'-5"
PRIMARY 34'-3"

GEOMETRIC LEGEND	
---	EXISTING
---	PROPOSED
UTILITY LEGEND	
SD	STORM DRAIN
G	GAS MAIN
W	WATER MAIN
S	SEWER MAIN
E	ELECTRIC CABLES
A	AERIAL CABLES
T	TELEPHONE CABLES
F	FIBER-OPTIC

SHA STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION
MD 2 @ MD 778 (OLD SOLOMONS ISLAND ROAD)
GROVER'S TURN ROAD

TRAFFIC SIGNALIZATION PLAN

SCALE 1" = 20' ADVERTISED DATE 06/2006 CONTRACT NO. AT9155185
DESIGNED BY SDY COUNTY CALVERT
DRAWN BY AMT LOGMILE 04002031.39
CHECKED BY BAB/JW TMS NO. K147
F.A.P. NO. TOD NO.
TS NO. 4490A DRAWING TSP-1 OF 2 SHEET NO. 1 OF 2

APPROVALS	REVISIONS
TEAM LEADER	
ASST. DIR. CHIEF	
DIVISION CHIEF	
OFFICE DIRECTOR	

UPGRADE TO FULL SIGNAL CONTROL
SHA CONTRACT NO. X43475185
TMS #K147
DATE 03/26/2010

PLOTTED: 03-29-2010
FILE: m:\31669-00\cadd\p8g-P001_K147.dgn

WR&A
WHITMAN, REQUARDT
& ASSOCIATES, LLP
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